

ABSTRACT

A hard disc drive includes a base having a moving region in which an air damping ramp adjacent to a recording surface of a disc, a slider, and a driving unit which holds the slider, move. A bottom of the moving region is lower than the air damping ramp, and has a channel that is recessed at the bottom of the moving region and extends along a moving path of the slider. Thus, the hard drive reduces a vortex that forms around a head gimbal assembly (HGA) due to an application of insufficient preload onto HGA or a defective HGA. Accordingly, vibration of the HGA due to the vortex decreases, thus rendering a position error signal (PES) more accurate and reliable.